

L Number	Hits	Search Text	DB	Time stamp
1	633	428/377.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 11:58
70	3751	electromagnetic adj wave adj shielding or parabolic adj antenna adj reflecting	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 15:10
71	19408	multi-filament or multifilament	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 15:10
72	19611	multi-filament or multifilament or multi adj filament	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 15:10
73	9168	stainless adj steel adj wire	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 15:12
75	0	(electromagnetic adj wave adj shielding or parabolic adj antenna adj reflecting) and ((multi-filament or multifilament or multi adj filament) with (stainless adj steel adj wire))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 15:12
74	25	(multi-filament or multifilament or multi adj filament) with (stainless adj steel adj wire)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 15:12
-	5830	428/222,364,365,373,377,371,379,442/310,316,197,228,229,376.ccls.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 09:40
-	274863	water-soluble or water adj soluble	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/08 14:17
-	1209966	fiber or filament or strand	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/08 14:20
-	10379	(water-soluble or water adj soluble) with (fiber or filament or strand)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/08 14:26
-	682	(water-soluble or water adj soluble) adj (fiber or filament or strand)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/08 14:21
-	173000	helical	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/08 14:21
-	3	((water-soluble or water adj soluble) adj (fiber or filament or strand)) and helical	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/08 14:21
-	205	((water-soluble or water adj soluble) with (fiber or filament or strand)) with core	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/08 14:26
-	5	("2803268"   "2848018"   "3013588"   "3224466"   "3399521").PN.	USPAT	2003/01/08 16:32
-	6	3602964.URPN.	USPAT	2003/01/08 16:32

-	56	((water-soluble or water adj soluble) with (fiber or filament or strand)) with core) and (metal or metallic or steel)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/08 16:49
-	3761970	metal or metallic or steel	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/08 16:50
-	28121	(metal or metallic or steel) adj (fiber or filament or strand)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 09:41
-	42	428/377.ccls. and ((metal or metallic or steel) adj (fiber or filament or strand))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/08 16:53
-	19	((water-soluble or water adj soluble) adj (fiber or filament or strand)) and ((metal or metallic or steel) adj (fiber or filament or strand))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/08 16:53
-	104044	(metal or metallic or steel) adj ((fiber or filament or strand) or wire)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/08 17:01
-	191756	helical or helically	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/08 17:02
-	2123	((metal or metallic or steel) adj ((fiber or filament or strand) or wire)) with (helical or helically)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/08 17:02
-	22	((metal or metallic or steel) adj ((fiber or filament or strand) or wire)) with (helical or helically)) same ((water-soluble or water adj soluble) with (fiber or filament or strand)) or PVA or polyvinyl)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/08 17:04
-	121326	polyvinyl adj alcohol or PVA or co-nylon or co-polyamide or polyactic adj acid	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 09:45
-	317654	(metal or metallic or steel) with (fiber or filament or strand or wire)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 10:01
-	1245	(polyvinyl adj alcohol or PVA or co-nylon or co-polyamide or polyactic adj acid) same ((metal or metallic or steel) with (fiber or filament or strand or wire))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 09:42
-	10417	(polyvinyl adj alcohol or PVA or co-nylon or co-polyamide or polyactic adj acid) with (fiber or filament or strand or wire)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 09:46
-	924	((metal or metallic or steel) with (fiber or filament or strand or wire)) same ((polyvinyl adj alcohol or PVA or co-nylon or co-polyamide or polyactic adj acid) with (fiber or filament or strand or wire))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 09:46
-	892274	wound or wrapped or helical or helically or spiral or spirally	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 09:48
-	26	((metal or metallic or steel) with (fiber or filament or strand or wire)) same ((polyvinyl adj alcohol or PVA or co-nylon or co-polyamide or polyactic adj acid) with (fiber or filament or strand or wire))) same (wound or wrapped or helical or helically or spiral or spirally)	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/01/10 09:48

-	19392	((metal or metallic or steel) with (fiber or filament or strand or wire)) with (wound or wrapped or helical or helically or spiral or spirally)	USPAT, US-PGPUB, EPO, JPO, DERWENT	2003/01/10 10:03
-	3944	((metal or metallic or steel) with (fiber or filament or strand or wire)) with (wound or wrapped or helical or helically or spiral or spirally) same core	USPAT, US-PGPUB, EPO, JPO, DERWENT	2003/01/10 10:05
-	3	2342098.URPN.	USPAT	2003/01/10 10:35
-	38	((metal or metallic or steel) with (fiber or filament or strand or wire)) with (wound or wrapped or helical or helically or spiral or spirally) same (composite adj yarn)	USPAT, US-PGPUB, EPO, JPO, DERWENT	2003/01/10 11:36

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L1: Entry 1 of 1

File: JPAB

Mar 18, 1987

PUB-NO: JP362061747A

DOCUMENT-IDENTIFIER: JP 62061747 A

TITLE: MANUFACTURE OF SPIRAL ELECTRIC WIRE

PUBN-DATE: March 18, 1987

## INVENTOR-INFORMATION:

NAME

COUNTRY

SAKAI, TAKASHI

## ASSIGNEE-INFORMATION:

NAME

COUNTRY

MITSUBISHI RAYON CO LTD

APPL-NO: JP60199079

APPL-DATE: September 9, 1985

INT-CL (IPC): B21F 3/04

## ABSTRACT:

PURPOSE: To form a spiral electric wire which is excellent in flexibility and elasticity, by winding a conductive wire around a core material composed of a continuous threadlike material under a coil-like condition.

CONSTITUTION: A continuous threadlike substance 1 composed of a cellulose acetate string, water-soluble fiber, or thermoplastic threadlike material is used as the core material of the spiral electric wire of this invention. The threadlike substance 1 fed by feed rollers 4 is passed through the hole of a hollow rotary spindle 12, to which the bobbin 2 of a conductive wire 13 is fitted, and the conductive wire 13 is wound around the threadlike substance 1 pulled out by means of pulling-out rolls 5 under a coil-like condition. A cheese 3 obtained by covering the threadlike substance 1 with the conductor wire 13 in this manner is coated with an insulating material after the threadlike substance 1 is melted away or removed by fusion.

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